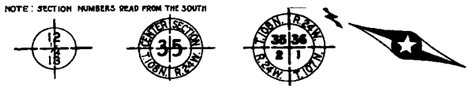
## Conventional Signs

- STATE LINE
- COUNTY LINE
- TWP OR RANGE LINE
- SECTION LINE
- RIGHT OF WAY LINE
- CORPORATE OR CITY LIMITS
- ROAD CENTER LINE
- RETAINING WALL
- RAILROADS
- CREEK
- DRY RUN
- DRAINAGE DITCH
- POWER POLE LINE
- TELEPHONE OR TELEGRAPH LINE
- CULVERTS - PLAIN
  - WITH ENDWALLS
  - WITH WINGWALLS
- DROP INLET
- FENCE LINE
- GRAVEL PIT
- SAND PIT
- CLAY PIT
- ROCK QUARRY
- SPRINGS
- MARSH
- BRUSH OR TIMBER
- HEDGE
- ROCK LEDGE
- SAND
- EDGE OF CUT
- TOE OF EMBANKMENT
- RAILROAD R/W LINE
- BUILDING (One Story Frame)

## Abbreviations

| | |
|---|---|
| EXCAVATION | EXC. |
| EARTH | E. |
| LOOSE ROCK | L.R. |
| SOLID ROCK | S.R. |
| EMBANKMENT | F. |
| OVERHAUL | H. |
| SURFACING | S. |
| HAND DITCHING | H.D. |
| SPECIAL EXCAVATION | S.E. |
| SPECIAL PLOWING | S.P. |
| GUARD RAIL | G.R. |
| CORRUGATED METAL CULVERT | C.M.CULV. |
| SECTIONAL CONCRETE CULVERT | R.CULV. |
| SECTIONAL CONCRETE CULVERT (Heavy Type) | R.CULV. |
| TON MILES | T.M. |
| TELEPHONE POLE | TEL. P. |
| POWER POLE | P.P. |
| PLACE | P. |
| INPLACE | INP. |
| REPLACE | REP. |
| RIGHT | RT. |
| LEFT | LT. |
| INTERSECTION ANGLE | Δ |
| RADIUS | R. |
| TANGENT | T. |
| LENGTH OF CURVE | L. |
| POINT OF CURVE | P.C. |
| POINT OF TANGENT | P.T. |
| POINT OF INTERSECTION | P.I. |
| VERTICAL CURVE | V.C. |
| BENCH MARK | B.M. |
| ELEVATION | EL. |
| ACRES | A |

NOTE: SECTION NUMBERS READ FROM THE SOUTH




# STATE OF MINNESOTA
# DEPARTMENT OF HIGHWAYS
## Plan and Profile of State Aid Road No. F

Construction Plan for Grade and Surface

**From** s/4 corner Sec. 18 T107N-R12W **To** 409.7' so. and 8.0' ea. N/4 corner Sec. 4 T107N-R12N

Give proper reference to Sections, Township and Range

GROSS LENGTH- 25,200 FEET 4.773 MILES

LENGTH OF EXCEPTIONS- 33.0 FEET 0.006 MILES

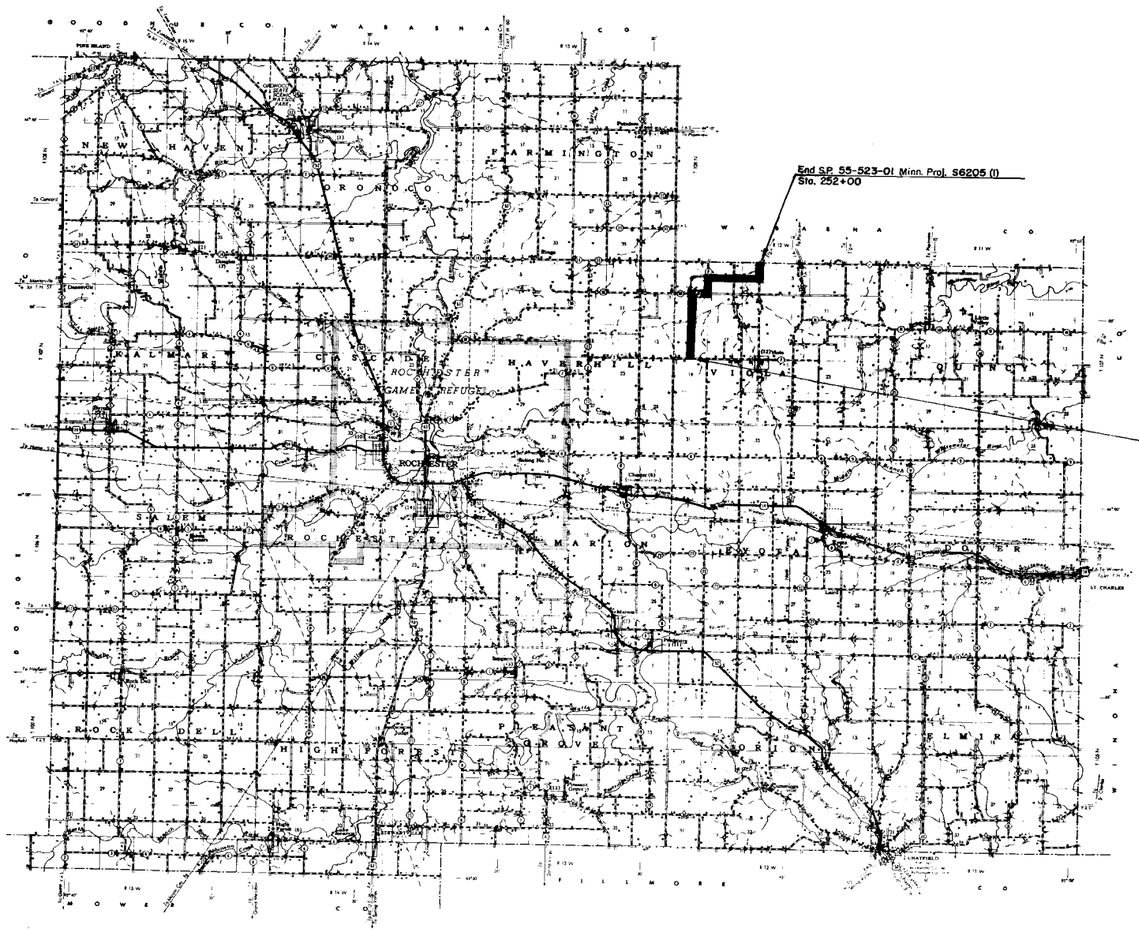
NET LENGTH 25,167.0 FEET 4.767 MILES

SCALES

- PLAN, 1 Inch = 100 Feet.
- PROFILE, Horz. 1 Inch = 100 Feet. Vert. 1 Inch = 10 Feet
- WORKING PLANS: Horz. 1 Inch = 100 Feet; Vert. 1 Inch = 10 Feet; Cross-Section, 1 Inch = 10 Feet

LAYOUT

Scale, 1 Inch = 10,560 Feet




**INDEX OF SHEETS**


Sheet No. 1. Title Sheet and Layout Map
" No. 2. Typical Cross-Sections and Statement
" No. 3. to 11 Plan Profile
" No. 12 to 29 Cross-Sections


# MINN. PROJ. S6205(1)

**SPECIFICATION REFERENCE:**
The specifications for Highway Construction, dated July 1, 1947, and submitted for approval by the Division Engineer of the Bureau of Public Roads October 15, 1947, as modified by 'supplement 1' thereto dated April 15, 1953, and submitted for approval by the Division Engineer of the Bureau of Public Roads on March 25, 1953, shall govern.

**DETAIL PLATE REFERENCE:**
Standard detail plates issued October 1, 1947 and approved by the Bureau of Public Roads April 1, 1948, with revisions approved February 24, 1949, shall govern.

**Design Speed 45 M.P.H.**

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:

DISTRICT ENGINEER DATE

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

H J Sullivan

DATE 5-18-55 REG. NO. 1207

Planned By H J Sullivan

HIGHWAY ENGINEER FOR OLMSTED COUNTY.

Recommended for Approval _____ DISTRICT ENGINEER

Approved 6-9-55 _____ ENGINEER OF COUNTY DIVISION

We received 155 Min. commitment 130,155 & 231 B.T.M.

916-12

County Proj. No. _____ Plan No. _____ Sheet 1 of 29 Sheets

FORM 129 c - # 1 Rev. '46

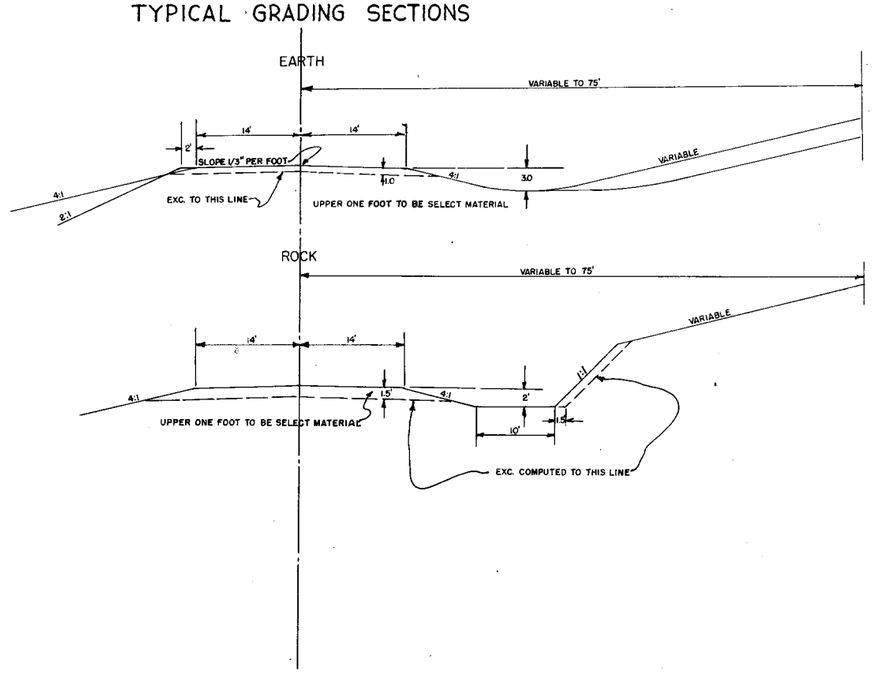
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| 5N | MINN. | | | | | |

## ESTIMATED QUANTITIES

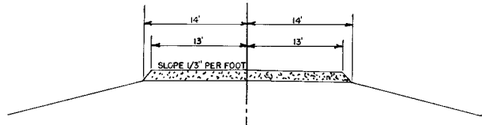
| SPECIFICATION NO. | ITEM | UNIT | TOTAL ESTIMATED QUANTITIES |
|---|---|---|---|
| 2101.502 | Clearing | Tree | 198 |
| 2101.507 | Gubbing | Tree | 212 |
| 2104.501 | Remove Portable Culverts | Lin. Ft. | 167 |
| 2105.501 | Class A Excavation | Cu. Yd. | 136,724 |
| 2105.502 | Class B Excavation | Cu. Yd. | 1,953 |
| 2109.501 | Obliterating Old Road | Acre | 2.8 |
| 2501.511-18 | F. and I. C.M.P. Culv. 18" | Lin. Ft. | 514 |
| 2501.511-24 | F. and I. C.M.P. Culv. 24" | Lin. Ft. | 302 |
| 2501.511-30 | F. and I. C.M.P. Culv. 30" | Lin. Ft. | 30 |
| 2501.511-36 | F. and I. C.M.P. Culv. 36" | Lin. Ft. | 92 |
| 2501.521-24 | F. and I. S.C.P. Culv. 24" | Lin. Ft. | 114 |
| 2501.521-30 | F. and I. S.C.P. Culv. 30" | Lin. Ft. | 146 |
| 2501.521-36 | F. and I. S.C.P. Culv. 36" | Lin. Ft. | 240 |
| 2501.536- | Install S.C. Culv. 36" | Lin. Ft. | 60 |
| 2515.531-18 | F. and I. Aprons for C.M.P. 18" | Apron | 32 |
| 2515.531-24 | F. and I. Aprons for C.M.P 24" | Apron | 14 |
| 2515.531-30 | F. and I. Aprons for C.M.P 30" | Apron | 2 |
| 2515.531-36 | F. and I. Aprons for C.M.P 36" | Apron | 2 |
| 2515.541-24 | F. and I. Conc. Aprons for S.C.P. 24" | Apron | 4 |
| 2515.541-30 | F. and I. Conc. Aprons for S.C.P. 30" | Apron | 6 |
| 2515.541-36 | F. and I. Conc. Aprons for S.C.P. 36" | Apron | 14 |
| | | | |
| 2442.501 | Remove Old Structure 221+13 ℄ | Structure | 1 |
| | | | |
| | | | |
| | | | |
| | | | |
| 2411.501 | Concrete | Cu. Yd. | 89 |
| | | | |
| 2411.525 | Class U Excavation | Cu. Yd. | 160 |
| 2411.541 | Reinforcement Bars | Pound | 13,350 |
| 2441.502 | Single Lane By-pass Sta. 63+60 ℄ | By-pass | 1 |
| 2442.501 | Remove Old Structure Sta. 63+60 | Structure | 1 |
| 2413.501 | Excavation for Timber Box Culv. | Cu. Yd. | 200 |
| 2413.511 | Timber Box Culvert 6X5'X46' Triple | Lin. Ft. | 46 |
| 2413.512 | Timber Box Culvert End Sections 6X5 | Section | 2 |
| 2441.502 | Single Lane By-pass Sta. 221+00 | By-pass | 1 |
| | | | |
| | | | |
| | | | |
| | | | |
| 2252.527 | Crushed Rock Wearing Course Inplace | Cu. Yd. (V.M.) | 9,650 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| PLATE NO. | STANDARD DETAIL PLATES |
|---|---|
| 3060 & 3061 | Timber Box Culvert |
| 3100A & 3102 | Concrete Apron for S.C.P. Culv. |
| 3123A | Metal Apron for C.M.P. Culv. |
| 9000 | Entrances and Approaches |
| | |
| | |
| | |
| | |
| | |
| | |

## TYPICAL GRADING SECTIONS




## TYPICAL BASE & SURFACE SECTIONS




3" Compacted depth.
1850 Cu. Yds. per mile

## SPECIAL DETAILS

Pipe Culv. Exc. shall considered incidental, and will be paid for unit price bid for F. and I. Culvs.

Material from the top one foot of the natural topsoil shall not be used in top one foot of the Roadway. Part of this material shall be spread uniformly on slopes and ditch bottoms to a depth of three inches. No payment in addition to the Contract Price for Class A Excavation will be made for spreading the topsoil as above provided, nor will any undercutting made in excavation prior to placing the topsoil be measured for payment.



DAHMS PHOTO PRINT CO
MPLS. 1, MINN

4+03 ℄
Inpl. 15"X32'C.M.P
Remove
F. and I. 24"X60' C.M.P.
F. and I. 2-24" Metal Aprons
Pt. Ditch Check Rt.

12+88 ℄
Inpl. 24"X36' C.M.P.
Remove
F. and I. 24"X74' C.M.P.
F. and I. 2-24" Metal Aprons

F.E. 15+84 Lt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

19+50 Lt. 36'
Check Dam

19+54 ℄
Inpl. 36"X38' C.M.P.
Remove
F. and I. 36"X92' C.M.P.
F. and I. 2-36" Metal Aprons

F.E. 26+44 Lt.
Inpl. 15"X28' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

PLAN VIEW CENTERLINE OF ROADWAY

Construct 2 50' Radius Shoulder Curves

S.A.R. No. 2

S.A.R. No. 2

FARMYARD

CULTIVATED

CULTIVATED

F.E. 3+87

F.E. 6+33

F.E. 26+44

F.E. 29+67

Begin S.P. 55-523-01 Minn. Proj. S6205(1)
Sta. 0+00

F.E. 3+87 Rt.
No Culv. Inpl.
No Culv. req'd.

F.E. 6+33 Rt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 29+67 Rt.
Inpl. 15"X20' C.M.P.
Remove
No Culv. req'd.

0+30 to 5+00
Clear 65 Trees Grub 79 Trees

19+50 to 20+30
Clear and Grub 5 Trees

PLAN
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NO.
DATE
BY

B.M. Elev. 1261.15
Spike in Pine

B.M. Elev. 1198.53
Spike in P. Pole
36' Lt. 29+78

Profile 75' Lt.
Profile 75' Rt.

INL. 53.0
OUT 50.0

INL. 34.4
OUT 26.0

INL. 18.0
OUT 09.5

PI +00
ELEV 1262.5

200' V.C.
M=0.5

-2.0%

PI +00
ELEV 1196.5

400' V.C.
M=2.5

-3.0%

E 726
F 546

E 1471
F 1110

E 4007
F 3011

E 3997
F 3017

E 1098
F 828

E 4560
F 3475

E 9400
F 7099

70
60
50
40
30
20
10
1200
90

0 1262.5
+25 62.3
+50 62.5
61.7
59.0
56.3
54.8
1+25.47
55.5
55.0
50.5
49.2
2+40.3
37.1
35.3
34.8
35.1
3+36.7
36.4
32.4
28.8
+65 26.6
+60 22.6
20.6
19.0
+56 19.6
4+19.6
21.4
+50 23.6
26.1
26.7
+50 26.1
24.2
5+21.9
12.3
07.2
02.1
9.8.2
6+19.6.0
94.9

S.P. 55-523-01 Minn. Proj. S6205(1) OLMSTED COUNTY, MINN. Sheet No. 3 of 29 Sheets

PLAN

| DATE | BY | |
|---|---|---|
| | | SURVEYED |
| | | PLOTTED |
| | | ALIGNMENT CHECKED |
| | | R/T OF WAY CHECKED |
| | | NOTE BOOK |
| | | NO. |

31+91 Lt.
Inpl. 36"X34' C.M.P.
Remove
F. and I. 2-36' Conc. Aprons

F.E. 52+41 Lt.
Inpl. 15"X24' C.M.P.
Remove
No Culv. req'd.

F.E. 58+75 Lt.
No Culv. Inpl.
No Culv. req'd.

PI 37+00
Δ 160°22'

CULTIVATED

CULTIVATED

CULTIVATED

HAYLAND

HOUSE

FARMYARD

PI 52+68.5
Δ 11°09'41"

F.E. 35+40 Rt.
Inpl. 15"X26' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 37+37 Rt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 57+60 Rt.
No Culv. Inpl.
No Culv. req'd.

32+50 to 37+50
Clear 65 Trees Grub 57 Trees

52+70 to 56+50
Clear 10 Trees Grub 2 Trees

59+00 to 61+00
Clear 9 Trees Grub 6 Trees

B.M. Elev. 1177.82
Spike in P. Pole
32' Rt. 43+35

Profile 75' Lt. ----------
Profile 75' Rt. ——————

E 4460
F 3333

E 10296
F 7766

S.P. 55-523-01
Minn. Proj. S6205 (1)

62+75 ℄
Inpl. 60"X265' S.C.P.
Remove

F.E. 64+15 Lt.
Inpl. 24"X 40' C.M.P.
Remove
No Culv. reqd.

65+25 ℄
Inpl. 24"X28' C.M.P.
Remove

67+00 ℄
F. and I. 36"X32' S.C.P.
F. and I. 2-36" Cogc. Aprons

69+30 ℄
Inpl. 24"X28' C.M.P.
Remove
No Culv. reqd.

72+80 ℄
Inpl. 36"X30' S.C.P.
Remove
F. and I. 36"X38' S.C.P.
F. and I. 2-36" Conc. Aprons
Pt. Ditch Check Lt.

F.E. 88+80 Lt.
No Culv. Inpl.
Move to 92+00 Lt.

CULTIVATED
MARSH
CULTIVATED
CULTIVATED
FARMYARD
PASTURE
CULTIVATED
CULTIVATED

Pl. 79+02.8
40°04' Rt.

Stone

F.E. 62+10 Rt.
Inpl. 24"X24' C.M.P.
Remove
F. and I. 24"X30' C.M.P.
F. and I. 2-24" Metal Aprons

66+04 ℄
Inpl. 2-18"X28' C.M.P.
Remove

F.E. 75+23 Rt.
Inpl. 18"X 18' C.M.P.
Remove
No Culv. reqd.

F.E. 88+80 Rt.
No Culv. Inpl.
Move to 92+00 Rt.

63+60 ℄
Inpl. 6'X6' Masonry Arch Culv.
Remove
Pt. C108X46X30P

CLASS 'A' Exc. 160 Cu. Yds.
Conc. 89.0 Cu. Yds.
Reinf. Bars 13350 Lbs.
Pt. Single Lane By-Pass

66+00 to 67+00
Grub 2 Trees

B.M. Elev. 1132.40
□ in West Hdwl.
Lt. 63+60

B.M. Elev. 1149.90
Spike in P. Pole
32' Rt. 79+48

Profile 75' Lt.
Profile 75' Rt.

P.I. +00
ELEV. 31.6
400' V.C.
M=0.9

P.I. +00
ELEV. 1140.0
800' V.C.
M=4.6

P.I. +63.394615
ELEV. 1159.207
500' V.C.
M=4.875

-0.4%
+1.8%
+5.8%
-0.4%
SR DT. RT.

INL. 29.0
OUT. 27.7

INL. 21.5
OUT. 20.7

INL. 34.0
OUT 32.0

E 15898 { A 14788 / B 1110
F 12049

S.P. 55-523-01
Minn. Proj. S6205 (1)

Sheet No. 5 of 29 Sheets

92+00 Lt.
Construct F.E.
No Culv. reqd.

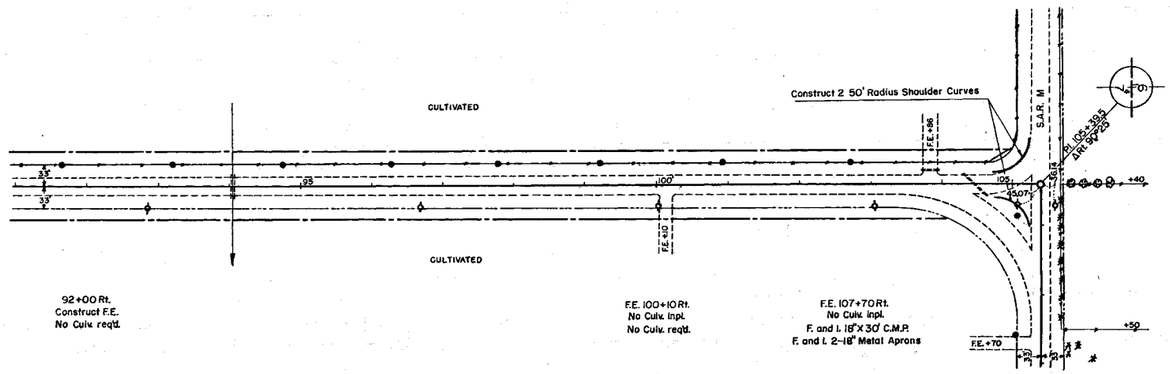
94+03 ℄
Inpl. 30"X36' C.M.P.
Remove
F. and I. 30"X66' S.C.P.
F. and I. 2-30" Conc. Aprons

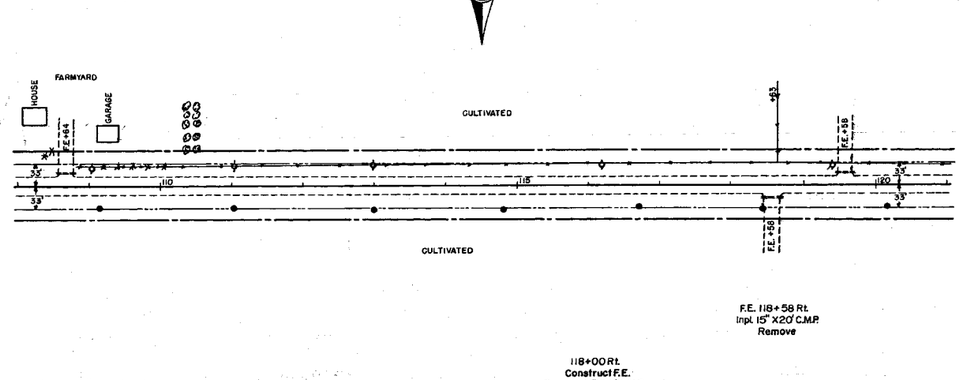
F.E. 103+86 Lt.
Inpl. 15" X 20' C.M.P.
Remove
F. and I. 18"X 30' C.M.P.
F. and I. 2-18" Metal Aprons

104+38 ℄
Inpl. 15"X 38' C.M.P.
Remove

F.E. 108+64 Lt.
Inpl. 15"X20' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 119+58 Lt.
Inpl. 18"X 20' C.M.P.
Remove
No Culv. reqd.




92+00 Rt.
Construct F.E.
No Culv. reqd.

F.E. 100+10 Rt.
No Culv. Inpl.
No Culv. reqd.

F.E. 107+70 Rt.
No Culv. Inpl.
F. and I. 18"X 30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 118+58 Rt.
Inpl. 15" X20' C.M.P.
Remove

118+00 Rt.
Construct F.E.
F. and I. 24"X30' C.M.P.
F. and I. 2-24" Metal Aprons

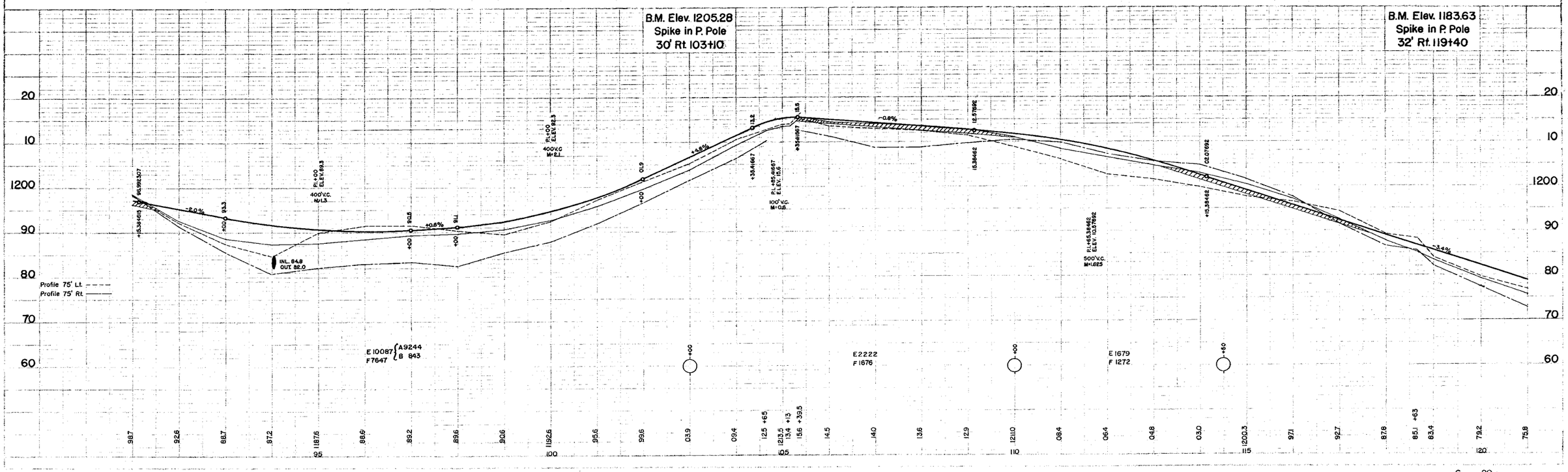
NOTE: STOP SIGNS & ADVANCE WARNING SIGNS
SO. OF INTERSECTION AT STA 104+39.5 WILL BE INST. BY CO.

104+00 to 107+00 Rt.
Obliterating Old Road 0.40 Acre

105+50 to 111+00
Clear and Grub 25 Trees

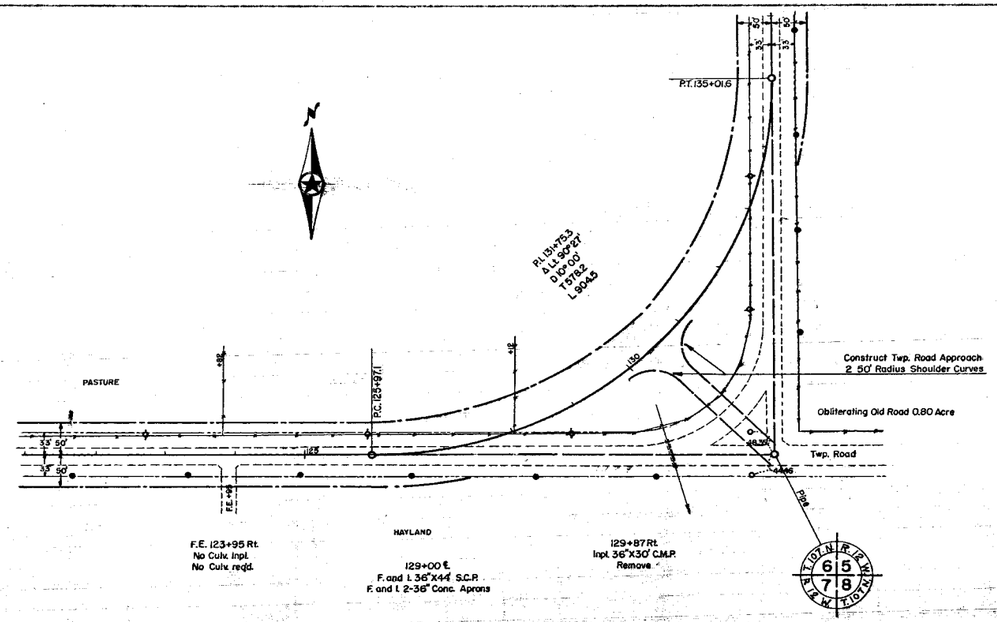
B.M. Elev. 1205.28
Spike in P. Pole
30' Rt. 103+10

B.M. Elev. 1183.63
Spike in P. Pole
32' Rt. 119+40




S.P. 55-523-01 Minn. Proj. S6205(1)

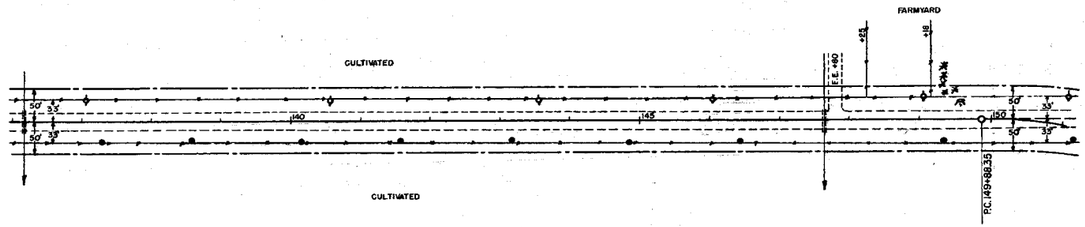
PLAN | DATE | BY
SURVEYED
PLOTTED
NOTE BOOK
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NO.




136+20 ℄
Inpl. 24"X32' C.M.P.
Remove
F. and I. 24"X 66' S.C.P.
F. and I. 2-24" Conc. Aprons

147+68 ℄
Inpl. 18"X 32' C.M.P.
Remove
F. and I. 24"X 48' S.C.P.
F. and I. 2-24" Conc. Aprons

F.E. 147+80 Lt.
No Culv. Inpl.
No Culv. reqd.




149+00 to 150+00
Clear 5 Trees Grub 6 Trees

B.M. Elev. 1161.22
Spike in P. Pole
32' Lt. 137+06

B.M. Elev. 1172.42
Spike in P. Pole
32' Lt. 149+10

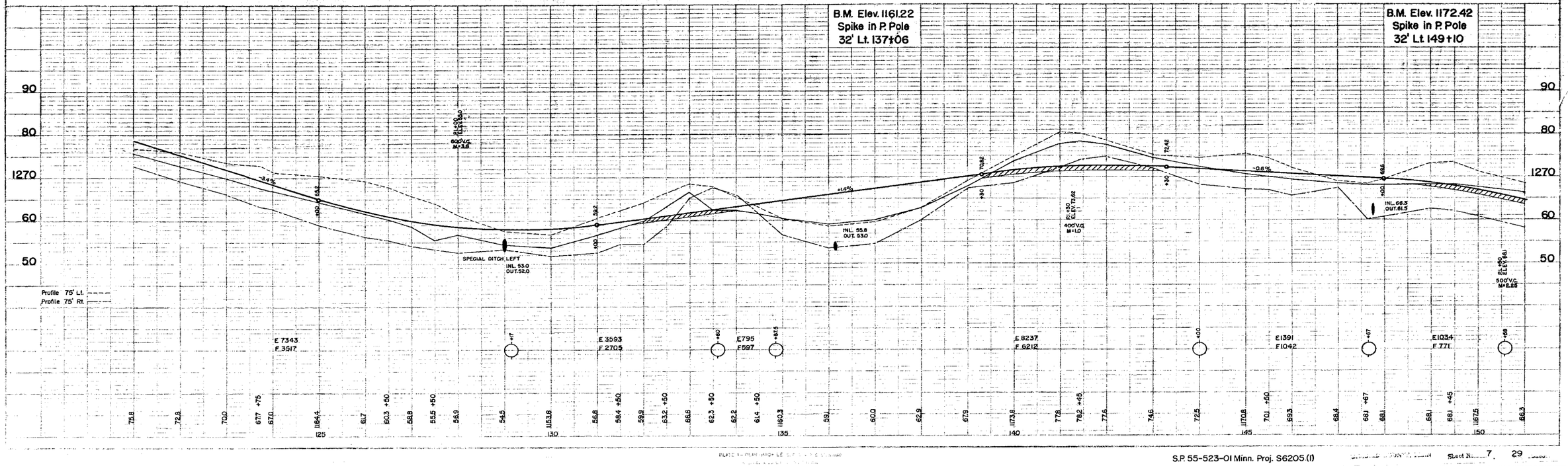



PLATE 1 — PLAN AND PROFILE OF PROPOSED HIGHWAY

PLAN
SURVEYED
DRAWN
NOTE BOOK
ALIGNMENT ENGINEER
BY: OF WAY ENGINEER
NO.

155+77 Lt.
Inpl. 36"X34' C.M.P.
Remove

154+50 Lt.
Construct S.A.R. "F" Approach
2-50' Radius Shoulder Curves
F. and I. 18"X64' C.M.P.
F. and I 2-18" Metal Aprons

F.E. 162+37 Lt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

166+24 ℄
Inpl. 18"X26' C.M.P.
Remove
F. and I. 24"X48' C.M.P.
F. and I 2-24" Metal Aprons

F.E. 167+25 Lt.
No Culv. Inpl.
No Culv. reqd.

F.E. 170+46 Lt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

S.A.R. F

6+5

P.I. 155+68.75
Δ Rt. 56°40'
D 10°00'
T 560.4
L 906.7

P.T. 158+95.05

F.E. 151+40 Lt.
Inpl. 15"X24' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

155+50 ℄
F. and I. 36"X54' S.C.P.
F. and I. 2-36" Conc. Aprons

F.E. 162+37 Rt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 167+00 Rt.
Inpl. 15"X24' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

P.O.T. 170+78.0

CENTER SECTION
SEC. 17 T.117 N. R.17 W. 5th P.M.

F.E.+40

P.C. 149+88.35

152+00 to 157+00
Obliterating Old Road 0.80 Acres

167+00 to 169+00
Clear 4 Trees Grub 5 Trees

179+00 to 181+00
Clear 7 Trees Grub 6 Trees

B.M. Elev. 1167.79
Spike in Stump
32' Rt. 166+81

P.I. +00
ELEV. 1160
500' V.C.
M=5.375

P.I. +50
ELEV. 1168.1
500' V.C.
M=2.25

P.I. +37.9303
ELEV. 1158.8697
500' V.C.
M=3.625

P.I. +83.33333
ELEV. 1149.33333
400' V.C.
M=1.5

P.I. +50
ELEV. 1169
400' V.C.
M=1.5

-14%
-4.5%
-3.8%

INL. 48.3
OUT. 43.2

INL. 64.5
OUT. 61.0

Profile 75' Lt. ----
Profile 75' Rt. ——

E 2939
F 2203

E 6180
F 4650

E 845
F 636

E 2483
F 1873

S.P. 55-523-01 Minn. Proj. S6205 (1)

181+90 ℄
Inpl. 30"X34' C.M.P.
Remove
F. and I. 30"X48' S.C.P.
F. and I. 2-30° Conc. Aprons

F.E. 188+89 Lt.
Inpl. 15"X24' C.M.P.
Remove
F. and I. 18"X 30' C.M.P.
F. and I. 2-18" Metal Aprons

Twp. Road 192+77 Lt.
No Culv. Inpl.
No Culv. reqd.

F.E. 193+07 Lt.
Inpl. 12"X22.5'S.C.P.
Remove
No Culv. reqd.

F.E. 207+65 Lt.
Inpl. 18"X20' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

CULTIVATED
FARMYARD
HOUSE
SCHOOL
SCHOOLYARD
TWP. ROAD 177
BARN
F.E. 189
F.E. 207
F.E. 185
F.E. 205
Construct 25' Radius Shoulder Curves
Pl. 192+74
4 Lt. Offset
5°24'

F.E. 188+89 Rt.
Inpl. 18"X24' C.M.P.
Remove
No Culv. reqd.

Twp. Road 192+77 Rt.
No Culv. Inpl.
No Culv. reqd.

F.E. 193+07 Rt.
Inpl. 18"X20' C.M.P.
Remove
F. and I. 24"X30' C.M.P.
F. and I. 2-24" Metal Aprons

192+45 ℄
Inpl. 30"X40' C.M.P.
Remove
F. and I. 30"X32' S.C.P.
F. and I. 2-30° Conc. Aprons

F.E. 206+25 Rt.
Inpl. 18"X20' C.M.P.
Remove
F and I. 24"X30' C.M.P.
F. and I. 2-24" Metal Aprons

210+53 ℄
Inpl. 30' Span
Treated Timber Bridge
24' Roadway

181+00 to 189+00
Clear 3 Trees Grub 19 Trees

B.M. Elev. 1114.96
□ in School Step
90' Lt. 193+50

B.M. Elev. 1079.77
Spike in west
Bridge Abut.

Profile 75' Lt.
Profile 75' Rt.

-0.8%
-3.0%
INL. 21.6
OUT 18.6
INL. 16.0
OUT 13.0
PI. +50
ELEV. 1144
400' V.C.
M=1.5
PI. ELEV.
400' V.C.
M=1.5

E 7313
F 5509
E 3218
F 2436
E 7006
F 5295

S.P. 55-523-01 Minn. Proj. S6205 (1)

9 29

211+40 ℄
Inpl. 30" X24' C.M.P.
Remove
F. and I. 30"X30' C.M.P.
F. and I. 2-30" Metal Aprons

220+93 ℄
Inpl. 2-36"X33' S.C.P.
Remove

223+00 ℄
Inpl. 18"X30' C.M.P.
Remove

231+00 Rt.
Construct F.E.
No Culv. reqd.

P.I. 232+19.9
Δ 90°48'
D 10°00'
T 58.17
L 90.80

P.T. 235+46.2

221+00 ℄
F. and I. 6'X 5'X 46' Triple
Treated Timber Culv.
F. and I. 2 End Sections
... Exc. 200 Cu. Yds.
Pl. Single Lane By-Pass

F.E. 232+00 Lt.
No Culv. Inpl.

Construct Twp. Road Approach
2-50' Radius Shoulder Curves
No Culv. reqd.

F.E.+40
F.E.+00

216+07 ℄
Inpl. 48"X48' C.M.P.
Railroad

216+87 ℄
Inpl. 48"X48' C.M.P.
Railroad

221+13 ℄
Inpl. 5'X4'X24'
Conc. Culv.
Remove

Railroad Commitment
2 Reflectorized Cross Bucks to be installed by R.R. Co.
2 Advance Warning Signs to be installed by County.

228+00 to 234 Rt.
Obliterating Old Road 0.80 Acre

CENTER SECTION 4 T.107 N. R.12 W.

Stone

Twp. Road

Chicago Great Northwestern Railroad

67°30'

47.4

35.45

PLAN
SURVEYED
PLOTTED
NOTE BOOK
BY OFFICE OF

Profile 75' Lt.
Profile 75' Rt.

INL. 710
OUT. 708

P.I. +00
ELEV. 78.4
400' V.C.
M=.15

P.I. +16.66667
ELEV. 80.43333
400' V.C.
M=0.3

-0.1%
-0.7%
+0.8%
+0.36%
-0.4%

E 2825
F 2134

E 3149
F 2378

E. 10425
F 7433

West Rail

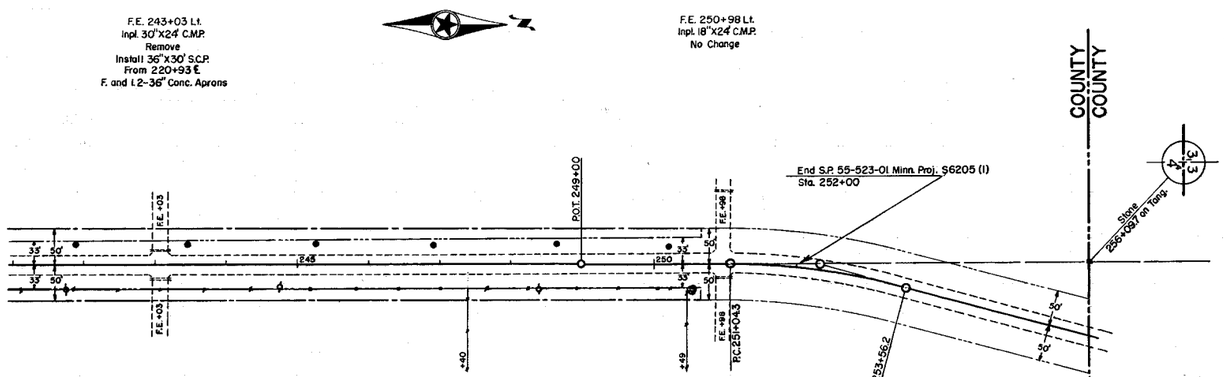
1100
90
80
70
60

| | | |

PLAN | SURVEYED | PLOTTED | NOTE BOOK | QUANTITIES CHECKED | RT. OF WAY CHECKED | DATE

F.E. 243+03 Lt.
Inpl. 30"X24' C.M.P.
Remove
Install 36"X30' S.C.P.
From 220+93 ℄
F. and I. 2-36" Conc. Aprons

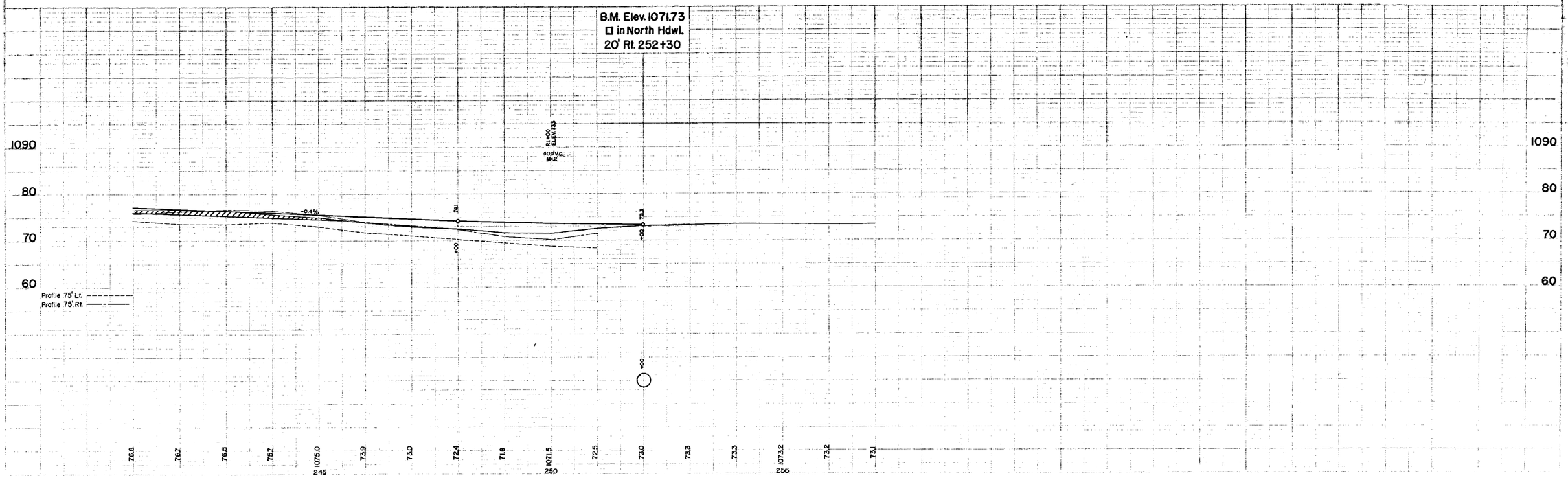
F.E. 250+98 Lt.
Inpl. 18"X24' C.M.P.
No Change




F.E. 243+03 Rt.
Inpl. 30"X24' C.M.P.
Remove
Install 36"X30' S.C.P.
From 220+93 ℄
F. and I. 2-36" Conc. Aprons

F.E. 250+98 Rt.
Inpl. 6'X3'X22'
Conc. Culv.
No Change

B.M. Elev. 1071.73
□ in North Hdwl.
20' Rt. 252+30






10-